

CLAIMS

What is claimed is:

1. A method for color profile editing, the method comprising:
converting source color data in a source color space to a destination image space to produce destination color data; and
applying color profile edits by enabling user changes to source color data to produce modified source color data and to the destination color data to produce modified destination color data and to a gamut mapping for converting the source color data to the destination color data.
2. A method as claimed in claim 1, further comprising receiving a list of initial profile edits.
3. A method as claimed in claim 1, further comprising enabling user selection of a gamut map for converting source color data to destination color data.
4. A method as claimed in claim 3, wherein the user selects a destination color space.
5. A method as claimed in claim 3, further comprising converting the selected gamut map to a look-up table form.
6. A method as claimed in claim 1, further comprising enabling user selection of source color data profile edits, destination color data profile edits, and gamut map edits.
7. A method as claimed in claim 6, further comprising applying the profile edits to the source color data, destination color data, and/or the gamut map.
8. A method as claimed in claim 6, further comprising converting the source color data in a source color space to a destination image color space to produce the destination color data using the gamut map

9. A method as claimed in claim 6, wherein the source color data profile edits comprise at least one of selective color profile, global mapping, and gamut mapping profile edits.
10. A method as claimed in claim 6, wherein the destination color data profile edits comprise at least one of single conversion, color ramp curves, shadow contrast, and black replacement profile edits.
11. A method as claimed in claim 6, wherein the gamut map profile edits comprise look up table changes.
12. A method for gamut mapping source color data to destination color data, the method comprising:
 - modifying the source color data in a source color space to implement a profile edit to generate modified source color data; and then
 - converting the modified source color data to a destination image space to produce the destination color data.
13. A method as claimed in claim 12, further comprising receiving a list of initial profile edits.
14. A method as claimed in claim 12, further comprising enabling user selection of a gamut map for converting modified source color data to destination color data.
15. A method as claimed in claim 14, further comprising converting the selected gamut map to a look-up table form.
16. A method as claimed in claim 12, further comprising enabling user selection of destination color data profile edits and gamut map edits.
17. A method as claimed in claim 16, further comprising applying the profile edits additionally to the destination color data, and/or the gamut map.

18. A method as claimed in claim 12, wherein the source color data profile edits comprise at least one of selective color profile, global mapping, and gamut mapping profile edits.
19. A method as claimed in claim 12, wherein the source color data profile edits comprise at least two of selective color profile, global mapping, and gamut mapping profile edits.
20. A method for gamut mapping source color data to destination color data, the method comprising:
 - modifying a gamut map to produce a modified gamut map to implement a profile edit; and
 - converting the source color data in a source color space to a destination image space to produce the destination color data using the modified gamut map.
21. A method as claimed in claim 20, further comprising receiving a list of initial profile edits.
22. A method as claimed in claim 20, further comprising enabling user selection of the gamut map for converting source color data to destination color data.
23. A method as claimed in claim 22, further comprising converting the selected gamut map to a look-up table form.
24. A method as claimed in claim 20, further comprising enabling user selection of source color data profile edits and destination color data profile edits.
25. A method as claimed in claim 24, further comprising applying the profile edits additionally to the source and destination color data.
26. A computer software product for profile editing, the product comprising a computer-readable medium in which program instructions are stored, which instructions, when read by a computer, cause the computer to enable user selection of

source color data profile edits, destination color data profile edits, and gamut map edits.

27. A product as claimed in claim 26, that enables generation of a list of initial profile edits.

28. A product as claimed in claim 26, that enables user selection of a gamut map for converting source color data to destination color data.

29. A product as claimed in claim 28, that enables user selection of a destination color space.

30. A product as claimed in claim 28, that enables converting the selected gamut map to a look-up table form.

31. A product as claimed in claim 26, that applies the profile edits to the source color data, destination color data, and/or the gamut map.

32. A product as claimed in claim 26, that converts source color data in a source color space to a destination image color space to produce destination color data using a gamut map

33. A product as claimed in claim 26, that enables selection between the source color data profile edits, which comprise at least one of selective color profile, global mapping, and gamut mapping profile edits.

34. A product as claimed in claim 26, that enables selection between the destination color data profile edits, which comprise at least one of single conversion, color ramp curves, shadow contrast, and black replacement profile edits.

35. A product as claimed in claim 26, that enables selection of the gamut map profile edits, which comprise look up table changes.